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L2: Entry 45 of 64

File: DWPI

Aug 13, 1993

DERWENT-ACC-NO: 1993-291122

DERWENT-WEEK: 200201

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TITLE: Lithium secondary battery has anode active material containing predetermined chemical compound provided with hexagonal crystal structure

PATENT-ASSIGNEE:

ASSIGNEE

MATSUSHITA ELEC IND CO LTD

PRIORITY-DATA: 1992JP-0010670 (January 24, 1992)

Search Selected Search ALL Clear

PATENT-FAMILY:

PUB-NO	PUB-DATE
<u>JP 05205741 A</u>	August 13, 1993
<u>JP 3082388 B2</u>	August 28, 2000

LANGUAGE	PAGES
	009
	009

CODE	MAIN-IPC
MATU	H01M004/58
	H01M004/58

APPLICATION-DATA:

PUB-NO	APPL-DATE
JP 05205741 A	January 24, 1992
JP 3082388 B2	January 24, 1992
JP 3082388 B2	

APPL-NO	DESCRIPTOR
1992JP-0010670	
1992JP-0010670	
JP 5205741	Previous Publ.

INT-CL (IPC): H01 M 4/02; H01 M 4/58; H01 M 10/40

ABSTRACTED-PUB-NO: JP 3082388B

BASIC-ABSTRACT:

NOVELTY - Anode (1) and a cathode (2) are made to contact a lithium ionic conductive electrolyte (4). The positive electrode

h e b b g e e e f c e g e c c

contains an active material formed by mixing lithium peroxide with cobalt oxide. The mixture is heat treated at 800 deg. C or less and cooled rapidly to obtain LiCoO₂ with hexagonal crystal structure.

USE - Lithium secondary battery e.g. lithium cell.

ADVANTAGE - Improves charging and discharging efficiency.

DESCRIPTION OF DRAWING (S) - The drawing shows the sectional view of lithium cell.

anode 1

cathode 2

lithium ionic conductive electrolyte 4

ABSTRACTED-PUB-NO:

JP 05205741A

EQUIVALENT-ABSTRACTS:

NOVELTY - Anode (1) and a cathode (2) are made to contact a lithium ionic conductive electrolyte (4). The positive electrode contains an active material formed by mixing lithium peroxide with cobalt oxide. The mixture is heat treated at 800 deg. C or less and cooled rapidly to obtain LiCoO₂ with hexagonal crystal structure.

USE - Lithium secondary battery e.g. lithium cell.

ADVANTAGE - Improves charging and discharging efficiency.

DESCRIPTION OF DRAWING (S) - The drawing shows the sectional view of lithium cell.

anode 1

cathode 2

lithium ionic conductive electrolyte 4

CHOSEN-DRAWING: Dwg. 2/7 Dwg. 2/7

TITLE-TERMS: LITHIUM SECONDARY BATTERY ANODE ACTIVE MATERIAL CONTAIN PREDETERMINED CHEMICAL COMPOUND HEXAGON CRYSTAL STRUCTURE

DERWENT-CLASS: L03 X16

CPI-CODES: L03-E01B5;

EPI-CODES: X16-B01F1; X16-E01C1;

h e b b g e e f c e g e c c

Record Display Form

Page 3 of

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C2001-193442
Non-CPI Secondary Accession Numbers: N2001-489966

h e b b g e e e f c e g e c c

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L2: Entry 38 of 64

File: DWPI

Dec 3, 1996

DERWENT-ACC-NO: 1997-072989

DERWENT-WEEK: 199707

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TITLE: Lithium cpd. oxide - used as active material for anode(s) of lithium sec. batteries

PATENT-ASSIGNEE:

ASSIGNEE

NIIPPON CHEM IND CO LTD

PRIORITY-DATA: 1995JP-0144143 (May 19, 1995)

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PATENT-FAMILY:

PUB-NO

JP 08319120 A

PUB-DATE

December 3, 1996

CODE

NIPC

LANGUAGE

013

MAIN-IPC

C01G053/00

PAGES

013

DESCRIPTOR

APPLICATION-DATA:

PUB-NO

JP 08319120A

APPL-DATE

May 19, 1995

APPL-NO

1995JP-0144143

INT-CL (IPC): C01 G 53/00; H01 M 4/02; H01 M 4/58; H01 M 10/40ABSTRACTED-PUB-NO: JP 08319120A
BASIC-ABSTRACT:

Cpd. oxide of lithium of formula $\text{Li}_{x}\text{Ni}_{1-y}\text{MeyO}_2$ (I) has lithium content at the 3a site measured by x-ray diffraction of at least 90% and the purity of the above cpd. oxide of lithium belonging to a hexagonal layered cpd. (space gp. R-3m) is at least 90% (where Me = transition metal except 0 < x < 1.1, and, 0 < y < 0.6).

USE - The cpd. oxide of lithium is used as an active material for the anodes of lithium sec. batteries.

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ADVANTAGE - When used as an active substance for the positive electrodes of lithium secondary batteries, the cpd. oxide of lithium provides high energy density with high discharge capacity and retention.

CHOSEN-DRAWING: Dwg. 0/10

TITLE-TERMS: LITHIUM COMPOUND OXIDE ACTIVE MATERIAL ANODE LITHIUM SEC BATTERY

DERWENT-CLASS: E31 L03 X16

CPI-CODES: E33-G; L03-E01B5;

EPI-CODES: X16-B01F1; X16-E01C1;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

A103 A428 A940 C108 C550 C730 C800 C801 C802 C803
C804 C805 M411 M417 M781 M903 M904 Q454 R043
Markush Compounds
199707-C1701-U

Chemical Indexing M3 *02*

Fragmentation Code

A103 A400 A428 A500 A600 A940 C108 C550 C730 C800
C801 C802 C803 C804 C805 M411 M417 M781 M903 M904
Q454 R043
Markush Compounds
199707-C1702-U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-023466

Non-CPI Secondary Accession Numbers: N1997-060613

h e b b g e e e f c e ge cc